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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/891,943

DATE: 01/10/2002
TIME: 12:30:14

Input Set: I891943.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Gallatin, Michael W.
2   Van der Vieren, Monica
3 <120> TITLE OF INVENTION: Novel Human 2
4 <130> FILE REFERENCE: 27866/35004
5 <140> CURRENT APPLICATION NUMBER: US/09/891,943
6 <141> CURRENT FILING DATE: 2001-06-26
7 <150> EARLIER APPLICATION NUMBER: 09/193,043
8 <151> EARLIER FILING DATE: 1998-11-16
9 <150> EARLIER APPLICATION NUMBER: 08/173,497
10 <151> EARLIER FILING DATE: 1993-12-23
11 <150> EARLIER APPLICATION NUMBER: 08/286,889
12 <151> EARLIER FILING DATE: 1994-08-05
13 <150> EARLIER APPLICATION NUMBER: 08/362,652
14 <151> EARLIER FILING DATE: 1994-12-21
15 <150> EARLIER APPLICATION NUMBER: 08/943,363
16 <151> EARLIER FILING DATE: 1997-10-03
17 <160> NUMBER OF SEQ ID NOS: 114
18 <170> SOFTWARE: PatentIn Ver. 2.0
19 <210> SEQ ID NO 1
20 <211> LENGTH: 3726
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
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25 <222> LOCATION: (3)..(3485)
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30   gga ttc aac ctg gat gtg gag gag cct acg atc ttc cag gag gat gca   95
31   Gly Phe Asn Leu Asp Val Glu Glu Pro Thr Ile Phe Gln Glu Asp Ala
32       20           25           30
33   ggc ggc ttt ggg cag agc gtg gtg cag ttc ggt gga tct cga ctc gtg   143
34   Gly Gly Phe Gly Gln Ser Val Val Gln Phe Gly Gly Ser Arg Leu Val
35       35           40           45
36   gtg gga gca ccc ctg gag gtg gtg gcg gcc aac cag acg gga cgg ctg   191
37   Val Gly Ala Pro Leu Glu Val Val Ala Ala Asn Gln Thr Gly Arg Leu
38       50           55           60
39   tat gac tgc gca gct gcc acc ggc atg tgc cag ccc atc ccg ctg cac   239
40   Tyr Asp Cys Ala Ala Ala Thr Gly Met Cys Gln Pro Ile Pro Leu His
41       65           70           75
42   atc cgc cct gag gcc gtg aac atg tcc ttg ggc ctg acc ctg gca gcc   287
43   Ile Arg Pro Glu Ala Val Asn Met Ser Leu Gly Leu Thr Leu Ala Ala
44       80           85           90           95

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47	100 105 110	
48	gtc tgt ggg gag aac tca tac tca aag ggt tcc tgc ctc ctg ctg ggc	383
49	Val Cys Gly Glu Asn Ser Tyr Ser Lys Gly Ser Cys Leu Leu Leu Gly	
50	115 120 125	
51	tcg cgc tgg gag atc atc cag aca gtc ccc gac gcc acg cca gag tgt	431
52	Ser Arg Trp Glu Ile Ile Gln Thr Val Pro Asp Ala Thr Pro Glu Cys	
53	130 135 140	
54	cca cat caa gag atg gac atc gtc ttc ctg att gac ggc tct gga agc	479
55	Pro His Gln Glu Met Asp Ile Val Phe Leu Ile Asp Gly Ser Gly Ser	
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57	att gac caa aat gac ttt aac cag atg aag ggc ttt gtc caa gct gtc	527
58	Ile Asp Gln Asn Asp Phe Asn Gln Met Lys Gly Phe Val Gln Ala Val	
59	160 165 170 175	
60	atg ggc cag ttt gag ggc act gac acc ctg ttt gca ctg atg cag tac	575
61	Met Gly Gln Phe Glu Gly Thr Asp Thr Leu Phe Ala Leu Met Gln Tyr	
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64	Ser Asn Leu Leu Lys Ile His Phe Thr Phe Thr Gln Phe Arg Thr Ser	
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66	ccg agc cag cag agc ctg gtg gat ccc atc gtc caa ctg aaa ggc ctg	671
67	Pro Ser Gln Gln Ser Leu Val Asp Pro Ile Val Gln Leu Lys Gly Leu	
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69	acg ttc acg gcc acg ggc atc ctg aca gtg gtg aca cag cta ttt cat	719
70	Thr Phe Thr Ala Thr Gly Ile Leu Thr Val Val Thr Gln Leu Phe His	
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72	cat aag aat ggg gcc cga aaa agt gcc aag aag atc ctc att gtc atc	767
73	His Lys Asn Gly Ala Arg Lys Ser Ala Lys Lys Ile Leu Ile Val Ile	
74	240 245 250 255	
75	aca gat ggg cag aag tac aaa gac ccc ctg gaa tac agt gat gtc atc	815
76	Thr Asp Gly Gln Lys Tyr Lys Asp Pro Leu Glu Tyr Ser Asp Val Ile	
77	260 265 270	
78	ccc cag gca gag aag gct ggc atc atc cgc tac gct atc ggg gtg gga	863
79	Pro Gln Ala Glu Lys Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val Gly	
80	275 280 285	
81	cac gct ttc cag gga ccc act gcc agg cag gag ctg aat acc atc agc	911
82	His Ala Phe Gln Gly Pro Thr Ala Arg Gln Glu Leu Asn Thr Ile Ser	
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84	tca gcg cct ccg cag gac cac gtg ttc aag gtg gac aac ttt gca gcc	959
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86	305 310 315	
87	ctt ggc agc atc cag aag cag ctg cag gag aag atc tat gca gtt gag	1007
88	Leu Gly Ser Ile Gln Lys Gln Leu Gln Glu Lys Ile Tyr Ala Val Glu	
89	320 325 330 335	
90	gga acc cag tcc agg gca agc agc tcc ttc cag cac gag atg tcc caa	1055
91	Gly Thr Gln Ser Arg Ala Ser Ser Ser Phe Gln His Glu Met Ser Gln	
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93	gaa ggc ttc agc aca gcc ctc aca atg gat ggc ctc ttc ctg ggg gct	1103
94	Glu Gly Phe Ser Thr Ala Leu Thr Met Asp Gly Leu Phe Leu Gly Ala	

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100	Met Ser Pro Thr Phe Ile Asn Met Ser Gln Glu Asn Val Asp Met Arg				
101		385	390	395	1247
102	gac tct tac ctg ggt tac tcc acc gag cta gcc ctg tgg aag ggg gta				
103	Asp Ser Tyr Leu Gly Tyr Ser Thr Glu Leu Ala Leu Trp Lys Gly Val				
104		400	405	410	1295
105	cag aac ctg gtc ctg ggg gcc ccc cgc tac cag cat acc ggg aag gct				
106	Gln Asn Leu Val Leu Gly Ala Pro Arg Tyr Gln His Thr Gly Lys Ala				
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108	gtc atc ttc acc cag gtg tcc agg caa tgg agg aag aag gcc gaa gtc				
109	Val Ile Phe Thr Gln Val Ser Arg Gln Trp Arg Lys Lys Ala Glu Val				
110		435	440	445	1391
111	aca ggg acg cag atc ggc tcc tac ttc ggg gcc tcc ctc tgc tcc gtg				
112	Thr Gly Thr Gln Ile Gly Ser Tyr Phe Gly Ala Ser Leu Cys Ser Val				
113		450	455	460	1439
114	gat gtg gac agc gat ggc agc acc gac ctg atc ctc att ggg gcc ccc				
115	Asp Val Asp Ser Asp Gly Ser Thr Asp Leu Ile Leu Ile Gly Ala Pro				
116		465	470	475	1487
117	cat tac tat gag cag acc cga ggg ggc cag gtg tcc gtg tgt ccc ttg				
118	His Tyr Tyr Glu Gln Thr Arg Gly Gly Gln Val Ser Val Cys Pro Leu				
119		480	485	490	1535
120	cct agg ggg cag agg gtg cag tgg cag tgt gac gct gtt ctc cgt ggt				
121	Pro Arg Gly Gln Arg Val Gln Trp Gln Cys Asp Ala Val Leu Arg Gly				
122		500	505	510	1583
123	gag cag ggc cac ccc tgg ggc cgc ttt ggg gca gcc ctg aca gtg ttg				
124	Glu Gln Gly His Pro Trp Gly Arg Phe Gly Ala Ala Leu Thr Val Leu				
125		515	520	525	1631
126	ggg gat gtg aat gag gac aag ctg ata gac gtg gcc att ggg gcc cgg				
127	Gly Asp Val Asn Glu Asp Lys Leu Ile Asp Val Ala Ile Gly Ala Pro				
128		530	535	540	1679
129	gga gag cag gag aac cgg ggt gct gtc tac ctg ttt cac gga gcc tca				
130	Gly Glu Gln Glu Asn Arg Gly Ala Val Tyr Leu Phe His Gly Ala Ser				
131		545	550	555	1727
132	gaa tcc ggc atc agc ccc tcc cac agc cag cgg att gcc agc tcc cag				
133	Glu Ser Gly Ile Ser Pro Ser His Ser Gln Arg Ile Ala Ser Ser Gln				
134		560	565	570	1775
135	ctc tcc ccc agg ctg cag tat ttt ggg cag gcg ctg agt ggg ggt cag				
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137		580	585	590	1823
138	gac ctc acc cag gat gga ctg atg gac ctg gcc gtg ggg gcc cgg ggc				
139	Asp Leu Thr Gln Asp Gly Leu Met Asp Leu Ala Val Gly Ala Arg Gly				
140		595	600	605	1871
141	cag gtg ctc ctg ctc agg agt ctg ccg gtg ctg aaa gtg ggg gtg gcc				
142	Gln Val Leu Leu Leu Arg Ser Leu Pro Val Leu Lys Val Gly Val Ala				
143		610	615	620	1919
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148	Glu Glu Lys Pro Ser Ala Leu Glu Ala Gly Asp Ala Thr Val Cys Leu	655	
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150	acc atc cag aaa agc tca ctg gac cag cta ggt gac atc caa agc tct	2015	
151	Thr Ile Gln Lys Ser Ser Leu Asp Gln Leu Gly Asp Ile Gln Ser Ser	670	
152	660	665	
153	gtc agg ttt gat ctg gca ctg gac cca ggt cgt ctg act tct cgt gcc	2063	
154	Val Arg Phe Asp Leu Ala Leu Asp Pro Gly Arg Leu Thr Ser Arg Ala	685	
155	675	680	
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157	Ile Phe Asn Glu Thr Lys Asn Pro Thr Leu Thr Arg Arg Lys Thr Leu	700	
158	690	695	
159	gga ctg ggg att cac tgt gaa acc ctg aag ctg ctt ttg cca gat tgt	2159	
160	Gly Leu Gly Ile His Cys Glu Thr Leu Lys Leu Leu Leu Pro Asp Cys	715	
161	705	710	
162	gtg gag gat gtg gtg agc ccc atc att ctg cac ctc aac ttc tca ctg	2207	
163	Val Glu Asp Val Val Ser Pro Ile Ile Leu His Leu Asn Phe Ser Leu	735	
164	720	725	
165	gtg aga gag ccc atc ccc tcc ccc cag aac ctg cgt cct gtg ctg gcc	2255	
166	Val Arg Glu Pro Ile Pro Ser Pro Gln Asn Leu Arg Pro Val Leu Ala	750	
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168	gtg ggc tca caa gac ctc ttc act gct tct ctc ccc ttc gag aag aac	2303	
169	Val Gly Ser Gln Asp Leu Phe Thr Ala Ser Leu Pro Phe Glu Lys Asn	765	
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171	tgt ggg caa gat ggc ctc tgt gaa ggg gac ctg ggt gtc acc ctc agc	2351	
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173	770	775	
174	ttc tca ggc ctg cag acc ctg acc gtg ggg agc tcc ctg gag ctc aac	2399	
175	Phe Ser Gly Leu Gln Thr Leu Thr Val Gly Ser Ser Leu Glu Leu Asn	795	
176	785	790	
177	gtg att gtg act gtg tgg aac gca ggt gag gat tcc tac gga acc gtg	2447	
178	Val Ile Val Thr Val Trp Asn Ala Gly Glu Asp Ser Tyr Gly Thr Val	815	
179	800	805	
180	gtc agc ctc tac tat cca gca ggg ctg tgc cac cga cgg gtg tca gga	2495	
181	Val Ser Leu Tyr Tyr Pro Ala Gly Leu Ser His Arg Arg Val Ser Gly	830	
182	820	825	
183	gcc cag aag cag ccc cat cag agt gcc ctg cgc ctg gca tgt gag aca	2543	
184	Ala Gln Lys Gln Pro His Gln Ser Ala Leu Arg Leu Ala Cys Glu Thr	845	
185	835	840	
186	gtg ccc act gag gat gag ggc cta aga agc agc cgc tgc agt gtc aac	2591	
187	Val Pro Thr Glu Asp Glu Gly Leu Arg Ser Ser Arg Cys Ser Val Asn	860	
188	850	855	
189	cac ccc atc ttc cat gag ggc tct aac ggc acc ttc ata gtc aca ttc	2639	
190	His Pro Ile Phe His Glu Gly Ser Asn Gly Thr Phe Ile Val Thr Phe	875	
191	865	870	
192	gat gtc tcc tac aag gcc acc ctg gga gac agg atg ctt atg agg gcc	2687	
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198	cag ctg gag ctc ccg gtg aag tat gca gtc tac acc atg atc agc agg	2783
199	Gln Leu Glu Leu Pro Val Lys Tyr Ala Val Tyr Thr Met Ile Ser Arg	
200	915 920 925	
201	cag gaa gaa tcc acc aag tac ttc aac ttt gca acc tcc gat gag aag	2831
202	Gln Glu Glu Ser Thr Lys Tyr Phe Asn Phe Ala Thr Ser Asp Glu Lys	
203	930 935 940	
204	aaa atg aaa gag gct gag cat cga tac cgt gtg aat aac ctc agc cag	2879
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206	945 950 955	
207	cga gat ctg gcc atc agc att aac ttc tgg gtt cct gtc ctg ctg aac	2927
208	Arg Asp Leu Ala Ile Ser Ile Asn Phe Trp Val Pro Val Leu Leu Asn	
209	960 965 970 975	
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213	ccc tgt gtt tca gag aga aaa cct ccc cag cat tct gac ttc ctg acc	3023
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220	Gln Phe Arg Cys Asp Val Pro Ser Phe Ser Val Gln Glu Glu Leu Asp	
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223	Phe Thr Leu Lys Gly Asn Leu Ser Phe Gly Trp Val Arg Glu Thr Leu	
224	1040 1045 1050 1055	
225	cag aag aag gtg ttg gtc gtg agt gtg gct gaa att acg ttc gac aca	3215
226	Gln Lys Lys Val Leu Val Val Ser Val Ala Glu Ile Thr Phe Asp Thr	
227	1060 1065 1070	
228	tcc gtg tac tcc cag ctt cca gga cag gag gca ttt atg aga gct cag	3263
229	Ser Val Tyr Ser Gln Leu Pro Gly Gln Glu Ala Phe Met Arg Ala Gln	
230	1075 1080 1085	
231	atg gag atg gtg cta gaa gaa gac gag gtc tac aat gcc att ccc atc	3311
232	Met Glu Met Val Leu Glu Glu Asp Glu Val Tyr Asn Ala Ile Pro Ile	
233	1090 1095 1100	
234	atc atg ggc agc tct gtg ggg gct ctg cta ctg ctg gcg ctc atc aca	3359
235	Ile Met Gly Ser Ser Val Gly Ala Leu Leu Leu Leu Ala Ile Thr	
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237	gcc aca ctg tac aag ctt ggc ttc ttc aaa cgc cac tac aag gaa atg	3407
238	Ala Thr Leu Tyr Lys Leu Gly Phe Phe Lys Arg His Tyr Lys Glu Met	
239	1120 1125 1130 1135	
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